

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A transmitting circuit using plural transmission frequency bands, comprising:

an input stage amplifier for amplifying an input signal;

an operating condition setting circuit for controlling an optimally amplified frequency band by setting an operating condition of the input stage amplifier;

a high-pass filter and a low-pass filter connected to an output of the input stage amplifier;

a high-frequency-band last stage amplifier, disposed corresponding to the high-pass filter, for amplifying a signal of frequency band passed by the high-pass filter; and

a low-frequency-band last stage amplifier, disposed corresponding to the low-pass filter, for amplifying a signal of frequency band passed by the low-pass filter.
2. (original): The transmitting circuit as set forth in claim 1, wherein the input stage amplifier is composed of transistors, and wherein the operating condition setting circuit sets a bias voltage of the transistors.
3. (original): The transmitting circuit as set forth in claim 1, wherein the high-pass filter and the high-frequency-band last stage amplifier correspond to the DCS 1800 frequency band, and

wherein the low-pass filter and the low-frequency-band last stage amplifier correspond to the GSM 900 frequency band.

4. (original): The transmitting circuit as set forth in claim 1,
wherein the input stage amplifier is a class C amplifier.

5. (original): The transmitting circuit as set forth in claim 1,
wherein all the amplifiers and filters are formed on the same semiconductor die.

6. (original): The transmitting circuit as set forth in claim 1,
wherein each of the amplifiers is produced by GaAs process.

7. (original): A communication terminal unit, comprising:
an antenna for transmitting and receiving a signal; a receiving circuit for amplifying the
signal received by the antenna;
a demodulating circuit for demodulating the signal received from the receiving circuit;
a base band signal processing circuit for processing the demodulated signal;
a modulating circuit for modulating the signal processed by the base band signal
processing circuit;
a transmitting circuit for amplifying the modulated signal to transmit, the transmitting
circuit being as set forth in one of claims 1 to 6;

means for designating a transmission frequency band to the operating condition setting circuit of the transmitting circuit; and

a switching circuit for selectively connecting the receiving circuit or the transmitting circuit to the antenna.

8. (previously presented): A transmitting circuit, comprising:
a common amplifier for amplifying an input signal of a plurality of frequency bands, and outputting an amplified signal; and
a setting circuit, coupled to the common amplifier, for setting an operating condition of the common amplifier based on a frequency band of the input signal.

9. (previously presented): The transmitting circuit according to claim 8, further comprising:
a high-frequency-band amplifier, coupled to the common amplifier, for amplifying a high frequency band signal, which is higher than predetermined frequency, from the amplified input signal, and
a low-frequency-band amplifier, coupled to the common amplifier, for amplifying a low frequency band signal, which is lower than predetermined frequency, from the amplified input signal.

10. (previously presented): The transmitting circuit according to claim 9, further comprising,

a high-pass filter, disposed between the common amplifier and the high-frequency-band amplifier, for passing the high frequency band signal, and

a low-pass filter, disposed between the common amplifier and the low-frequency-band amplifier, for passing the low frequency band signal.

11. (previously presented): The transmitting circuit according to claim 8, wherein the setting circuit sets the operation condition by setting a bias voltage.

12. (previously presented): The transmitting circuit according to claim 8, wherein the high frequency band is DCS 1800 frequency band, and the low frequency band is GSM 900 frequency band.

13. (previously presented): The transmitting circuit according to claim 8, wherein the common amplifier is a class C amplifier.

14. (previously presented): The transmitting circuit according to claim 8, wherein the common amplifier, the high-frequency-band amplifier, the low-frequency-band amplifier, the high-pass filter and the low-pass filter are formed on the same semiconductor die.

15. (previously presented): The transmitting circuit according to claim 8, wherein each of the common amplifier, the high-frequency-band amplifier and the low-frequency-band amplifier comprises GaAs.

16. (new): The transmitting circuit according to claim 1 wherein said operating condition setting circuit sets at least two operating conditions of the input stage amplifier, one set of operating conditions optimized for one frequency band and a second set of operating conditions optimized for a second frequency band